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1. A14-038: Dismounted Soldier See-through HD Display with Wireless Interface

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Design, integrate and build prototype see-through head borne Dismounted Soldier Display capable of wirelessly receiving and displaying high definition video and situational awareness information, utilizing state of the art display technologies. DESCRIPTION: Commercial and military products are available and emerging that include some of the capabilities, but none that address all thr ...

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2. A14-039: Standoff technologies for the detection of Explosively Formed Penetrators (EFPs)

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Design and develop techniques to detect emplaced roadside EFPs using vehicular mounted forward-looking active or passive sensor technologies. DESCRIPTION: The roadside environment is often a less homogenous background than that of the adjacent road. Roadways are generally clear of surface clutter but may have varying degree of subsurface stratum. Roadside environments may contai ...

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3. A14-040: Secure DIB 1.3 Query Service for Redaction and Fine Grained Access Control

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop a framework for a secure, standards based Attribute-Based Access Control (ABAC) solution that is capable of dynamically redacting and filtering data within the DIB Query Service (1.3 and later) SOAP endpoint and is interoperable with Simple Object Access Protocol (SOAP) Dial-Tone, Distributed Common Ground System (DCGS) Directory Information Base (DIB), and Distributed Common Gr ...

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4. A14-041: A LIDAR for Mapping Dense Aerosols

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: The objective is to develop a scanning lidar to measure the spatial evolution of dense obscurant clouds (one way transmission 0.25%) with high temporal and spatial resolution. The system should be capable of measuring an obscurant concentration point cloud contained in a 10x10x10 meter measurement volume with sample spacing of 1/5 meters and a total 3D cloud update rate of 1Hz. This m ...

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5. A14-042: A Novel Method for Creating Microshear to Aerosolize Packed Powders

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: To develop a concept which produces microshear to efficiently separate and disseminate fine powders that are densely packed within a container. Concepts should address material agglomeration issues that arise with optimized packing densities. A systematic study of the forces necessary to overcome binding effects of the materials could be developed along with mathematical modeling to s ...

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6. A14-043: Development of Phage-Quantum Dot Based Diagnostic Tools for Biological Agents

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Development of a novel platform for the detection/diagnosis of biological agents harnessing the specificity of attachment of phage to bacteria and the sensitivity of Quantum Dot (QD) nanocrystals. DESCRIPTION: An ideal detection/diagnosis technology/platform would have the following desirable properties: the potential for rapid, high-sensitive (detection at very low concentrations o ...

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7. A14-044: Ricin Toxin Protective Monoclonal Antibodies with Improved Serum Half-Life

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop innovative approaches to substantially improved serum half-life of the protective monoclonal antibodies for prophylaxis and/or therapy against ricin intoxication. DESCRIPTION: Ricin from the castor oil plant Ricinus communis, is a highly toxic, naturally occurring protein. A dose the size of a few grains of table salt can kill an adult human. Although estimates vary, the LD50 ...

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8. A14-045: Modernized Production of Enteric Coated Live, Oral Adenovirus Vaccine

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop novel technological methods for oral delivery of live adenovirus compared to the current FDA-licensed product,"Adenovirus Type 4 and Type 7 Vaccine, Live, Oral"(Barr Labs, Inc.). The new methods should provide material benefits in terms of production and comparable safety and immunogenicity. DESCRIPTION: Adenoviruses are a frequent cause of epidemic acute respiratory disease ...

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9. A14-046: Antibiotic Decision Support System for Management of Combat Casualties with Severe Infections

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop an antibiotic clinical decision support (CDSS) system to improve treatment for critical care patients with severe infections. The system will provide recommendations to critical care providers in the intensive care unit (ICU) on antibiotic dosing based on multiple patient factors, including weight, infection source, infectious agent, cultures, susceptibilities, and prior treatm ...

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10. A14-047: Portable Closed Loop Burn Resuscitation System to Optimize and Automate Fluid Resuscitation of Combat Casualties

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop a portable closed loop burn resuscitation system to improve treatment for serious burn patients. The resuscitation system will provide optimized fluid therapy for a patient based on patient attributes as well as patient response to therapy. The final system will automate many traditional caregiver tasks so that a medic could operate the system with similar care results. The f ...

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